

FIG.1

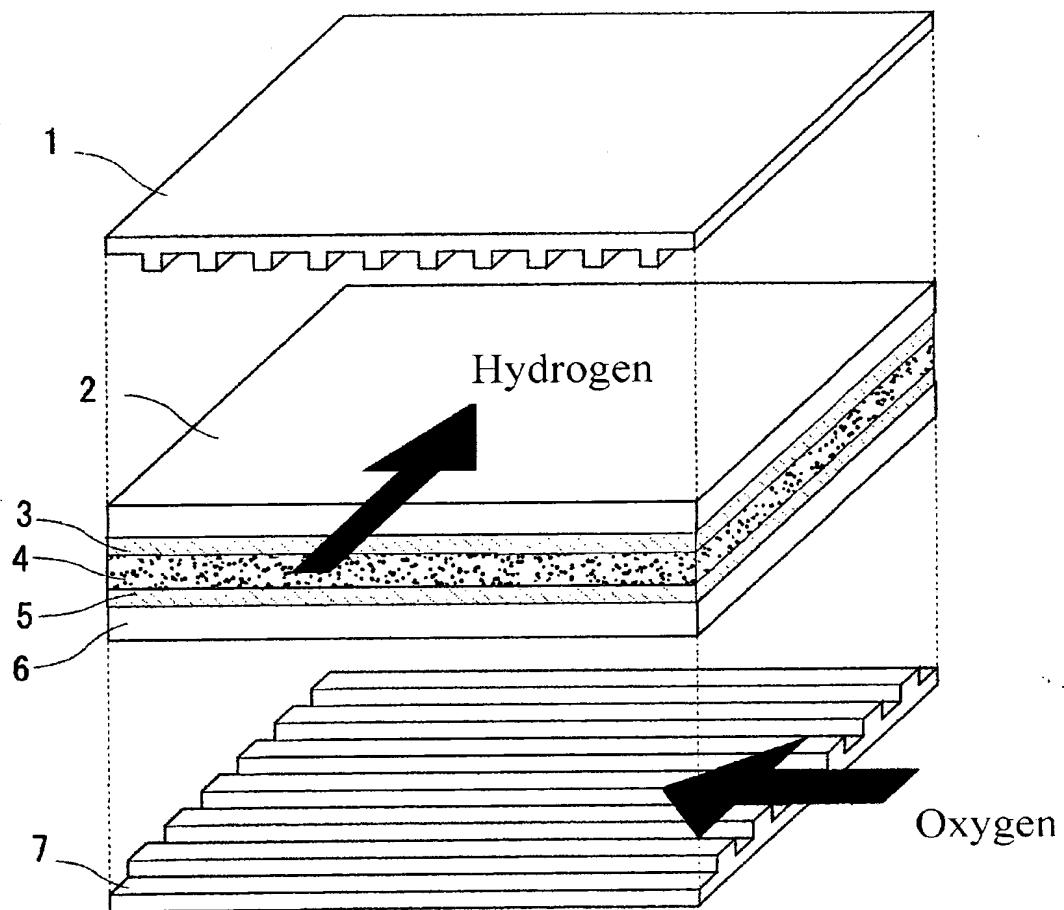


FIG.2

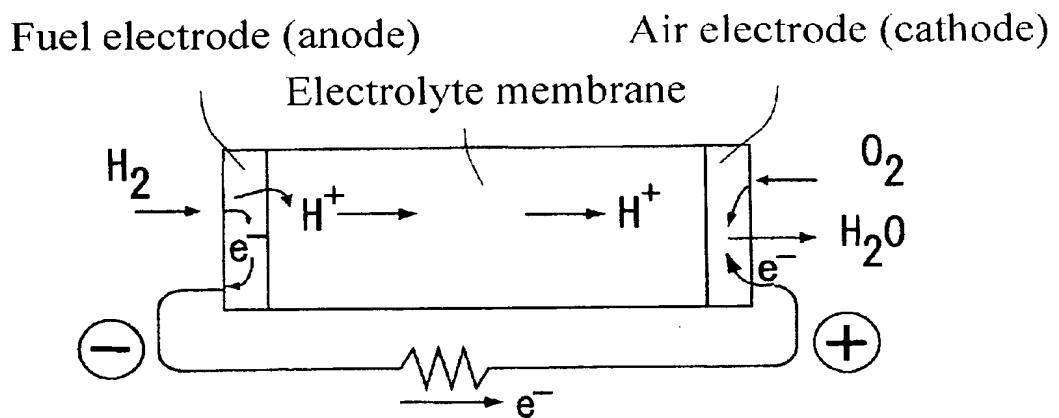
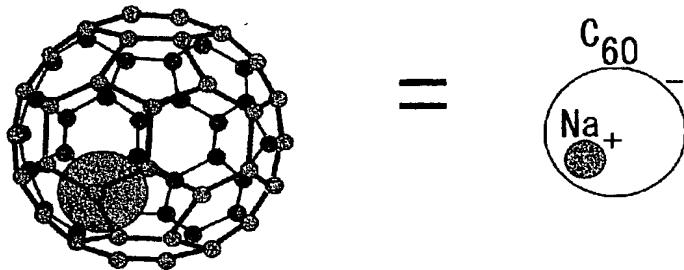


FIG.3

(a)  $\text{Na}@\text{C}_{60}$ 

(b) Electrolyte membrane

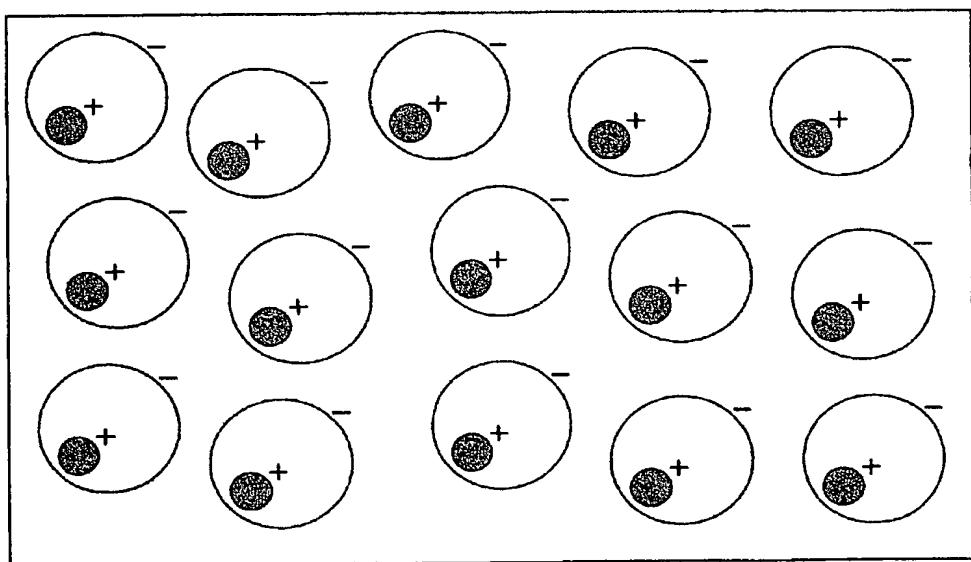


FIG.4

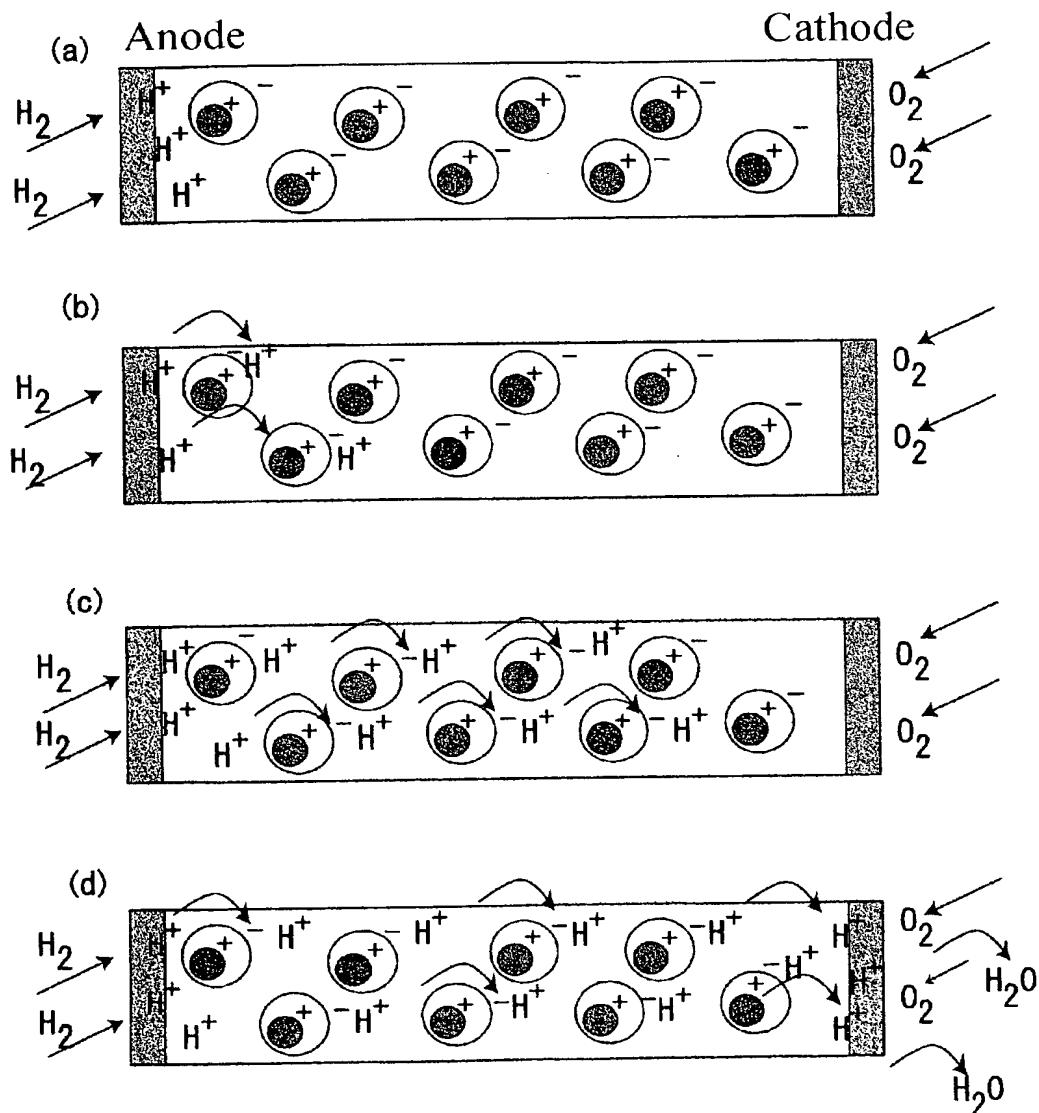
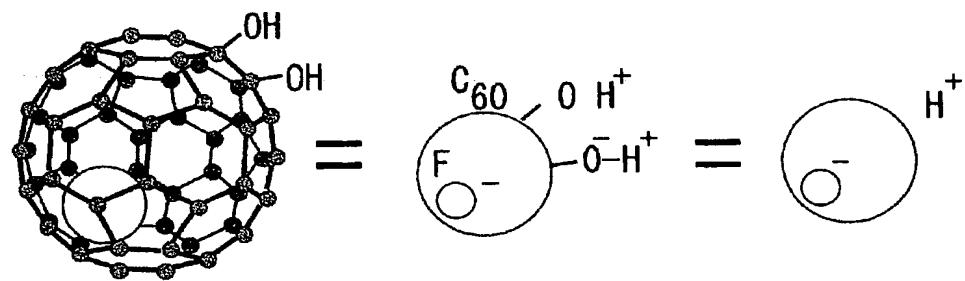


FIG.5

(a)  $\text{F@C}_{60}(\text{OH})_2$ 

(b) Electrolyte membrane

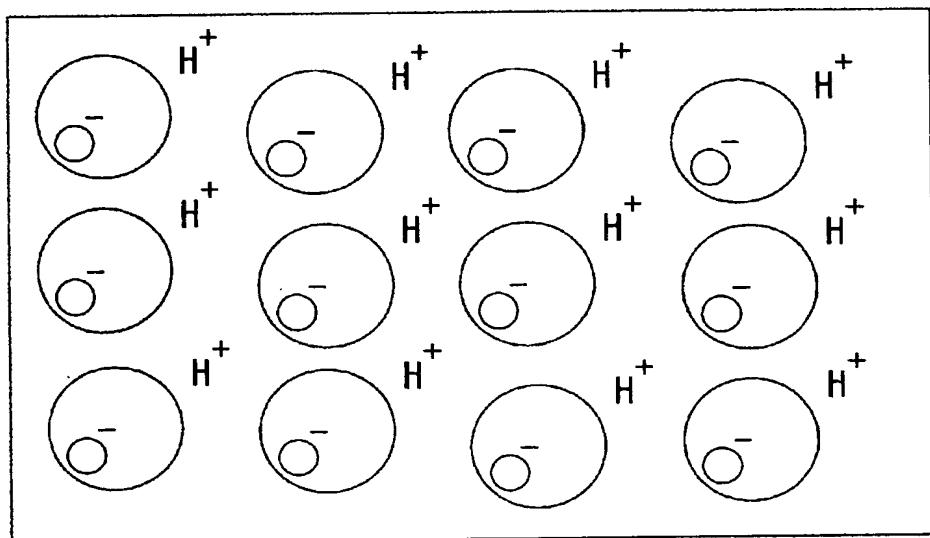


FIG.6

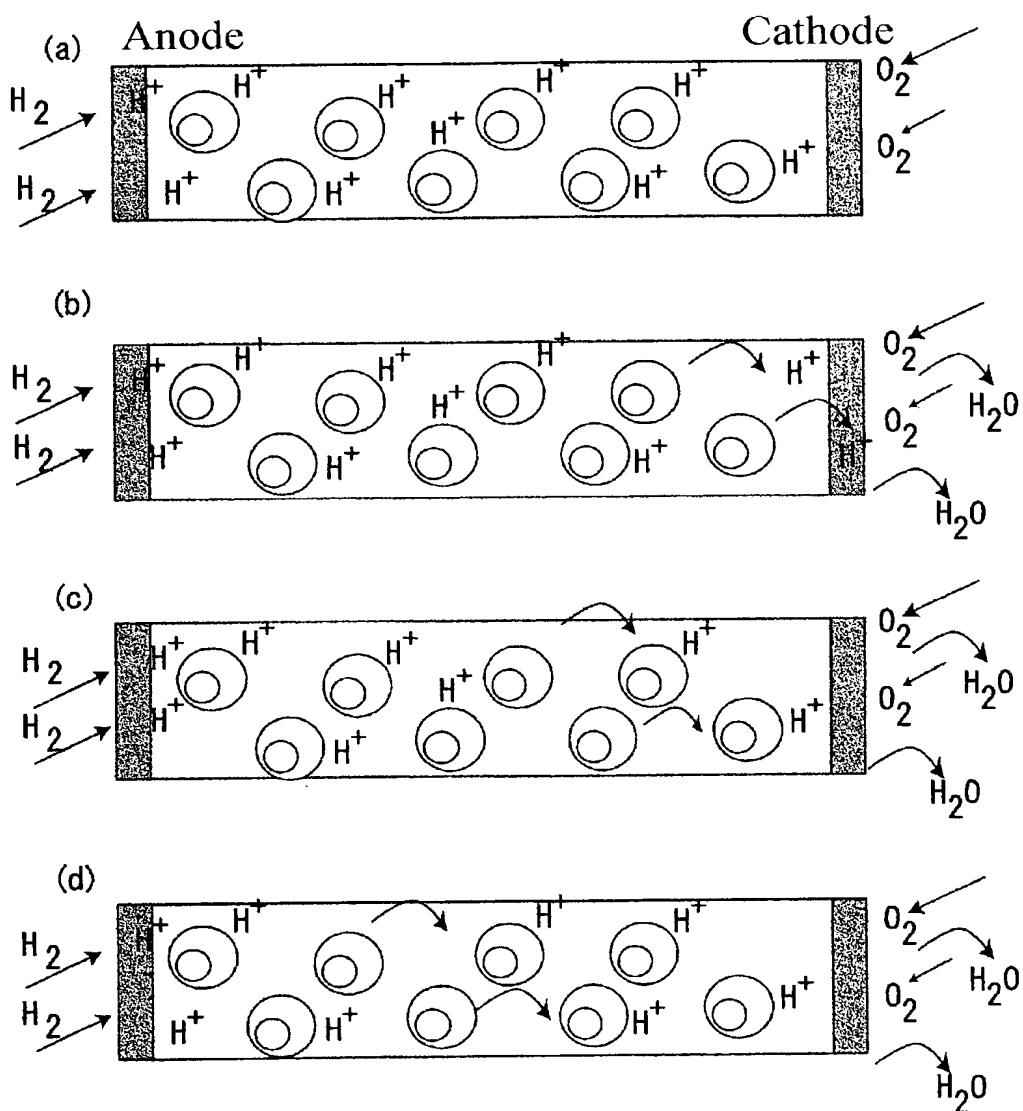
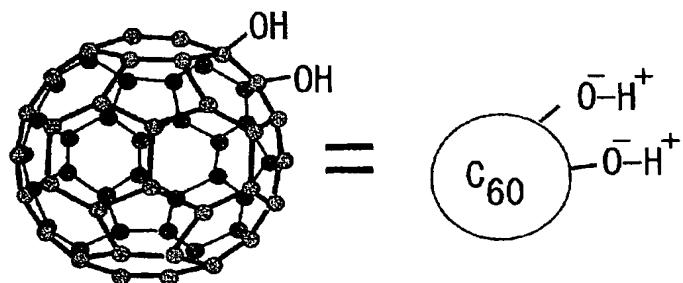


FIG.7

(a)  $C_{60}(OH)_2$ 

(b) Electrolyte membrane

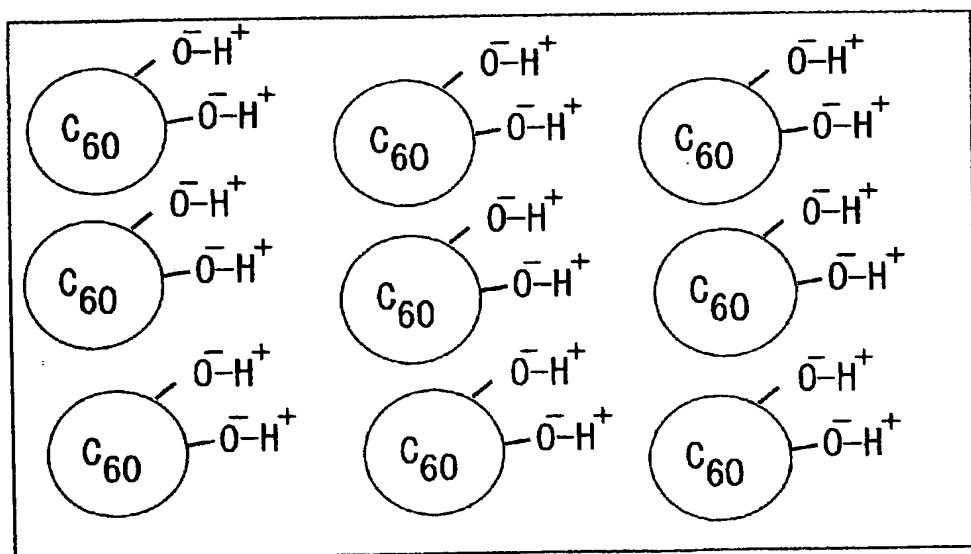


FIG. 8

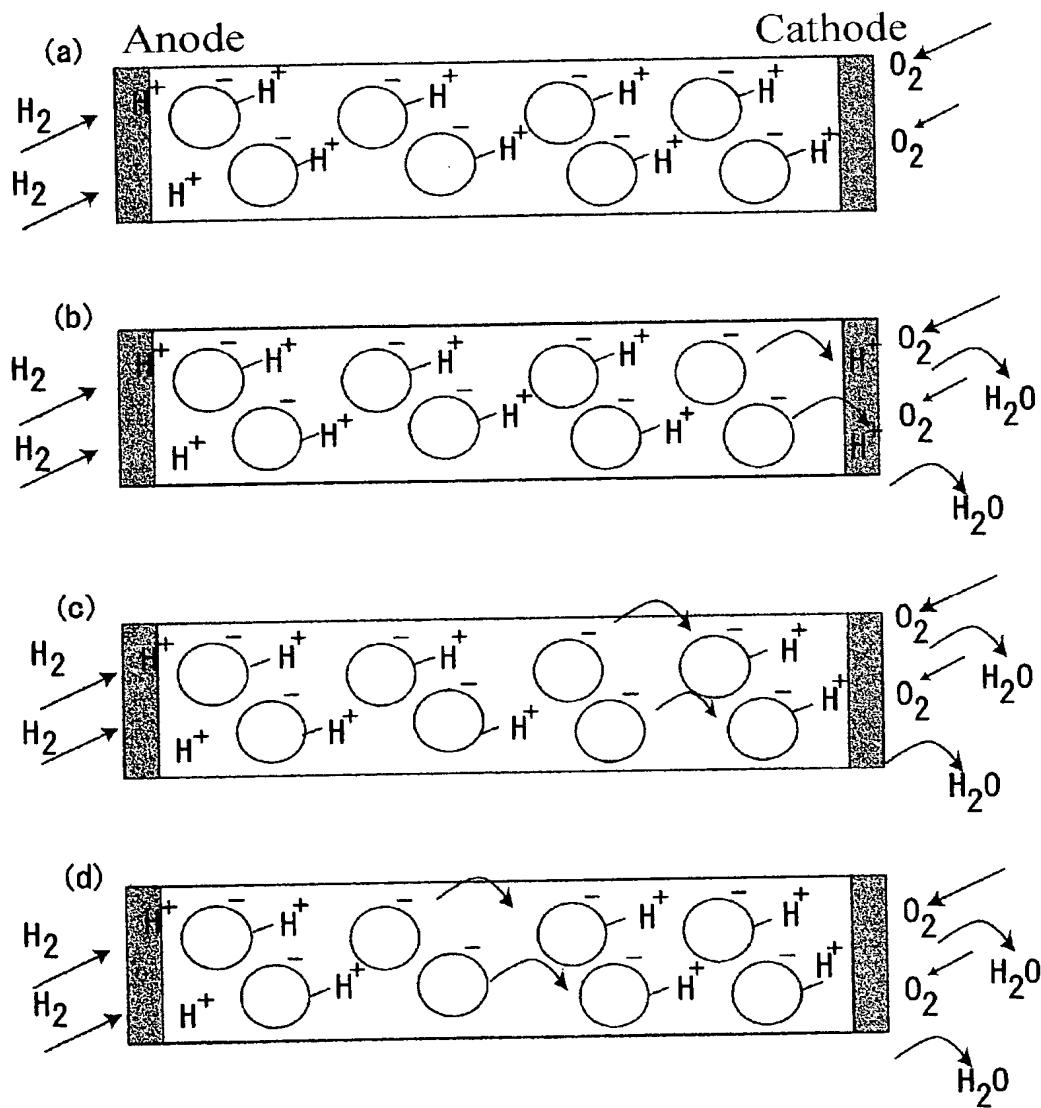
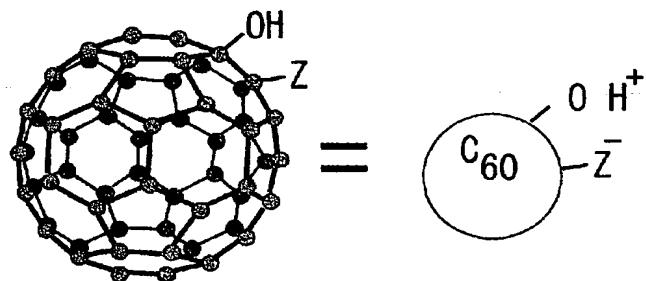


FIG.9

(a)  $C_{60}(OH)Z$ 

(b) Electrolyte membrane

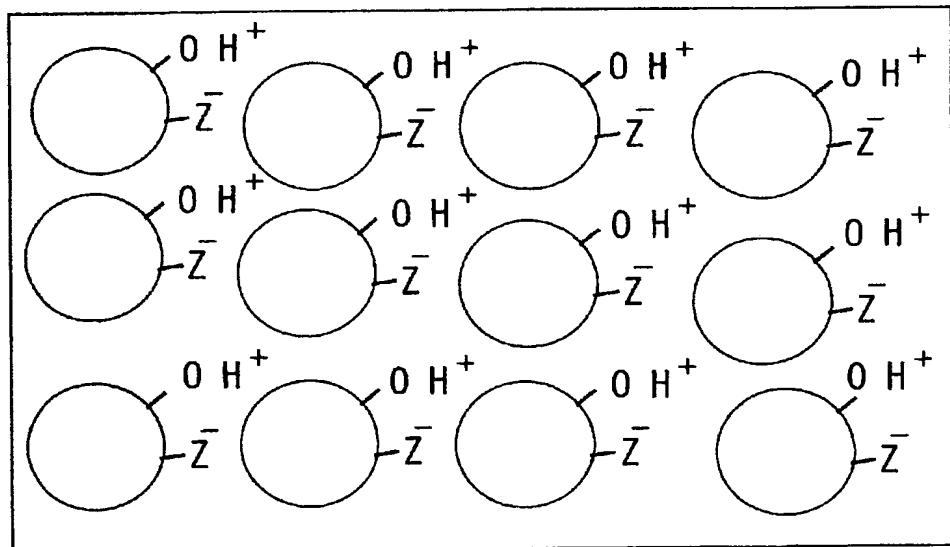


FIG.10

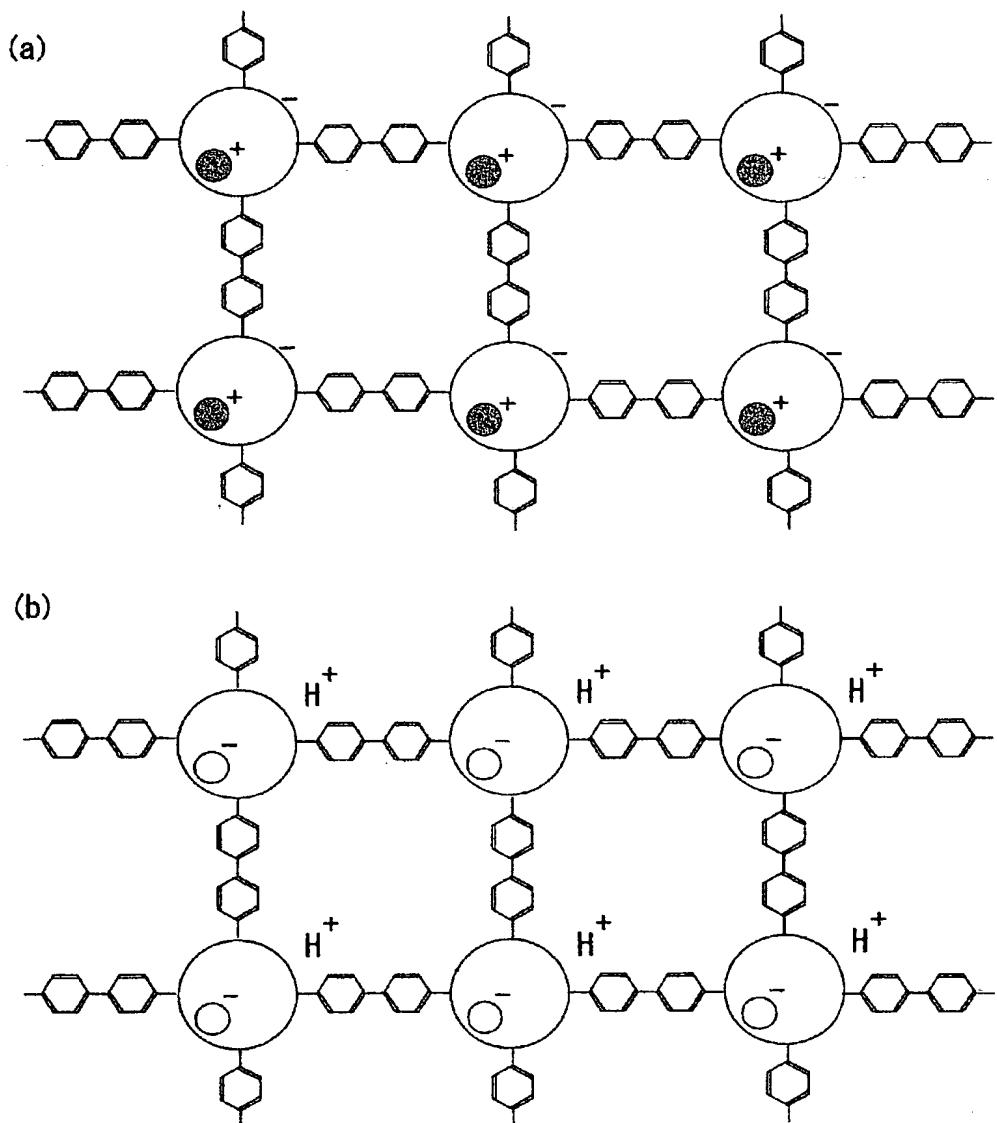
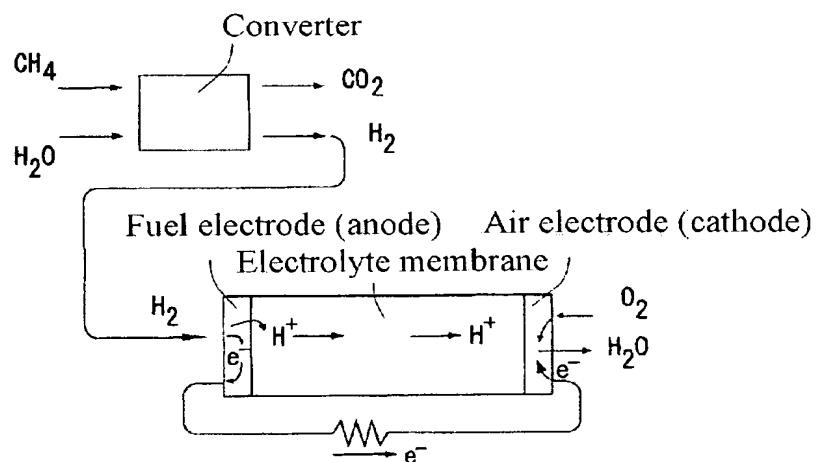
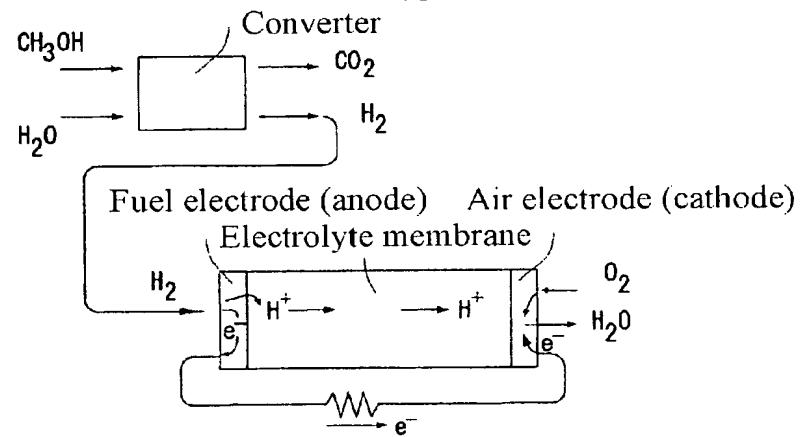


FIG.11

(a) Converted methane type



(b) Converted methanol type



(c) Direct methanol type

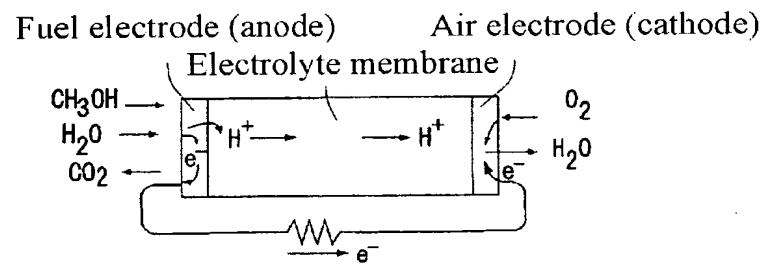


FIG.12

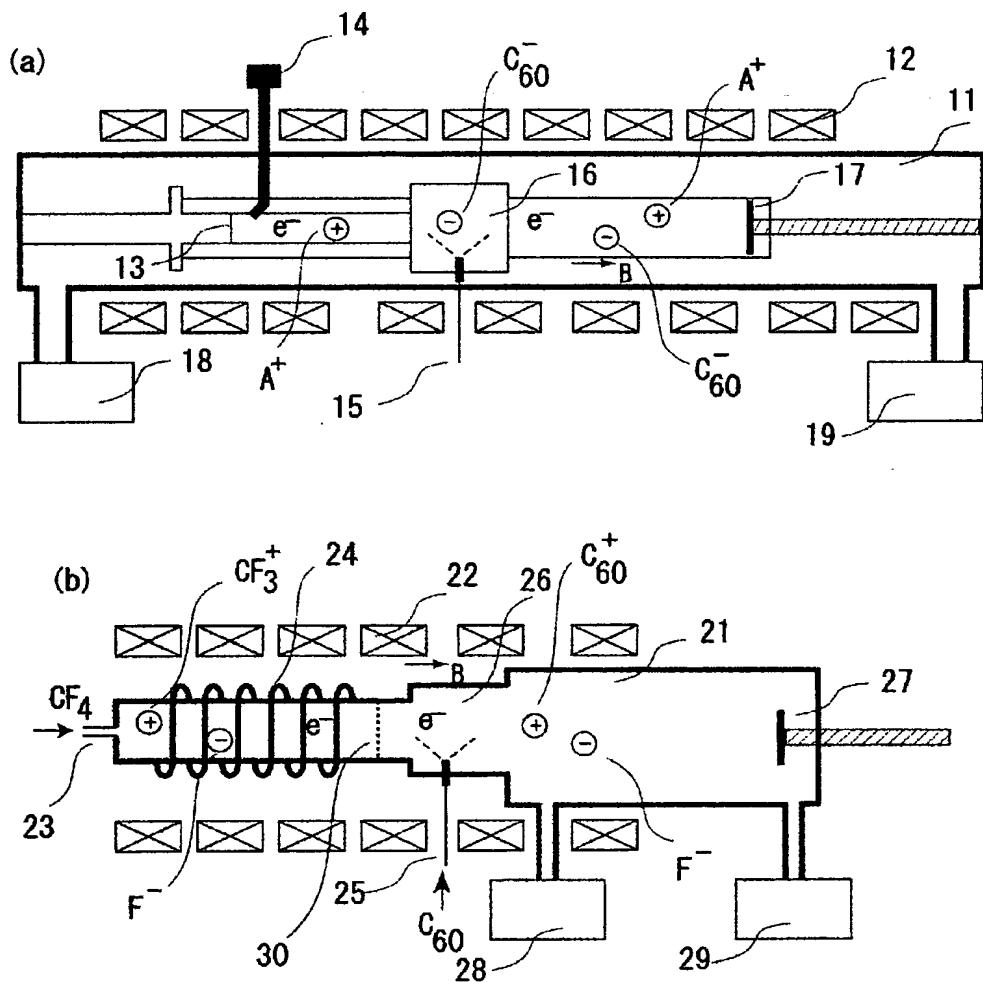


FIG.13

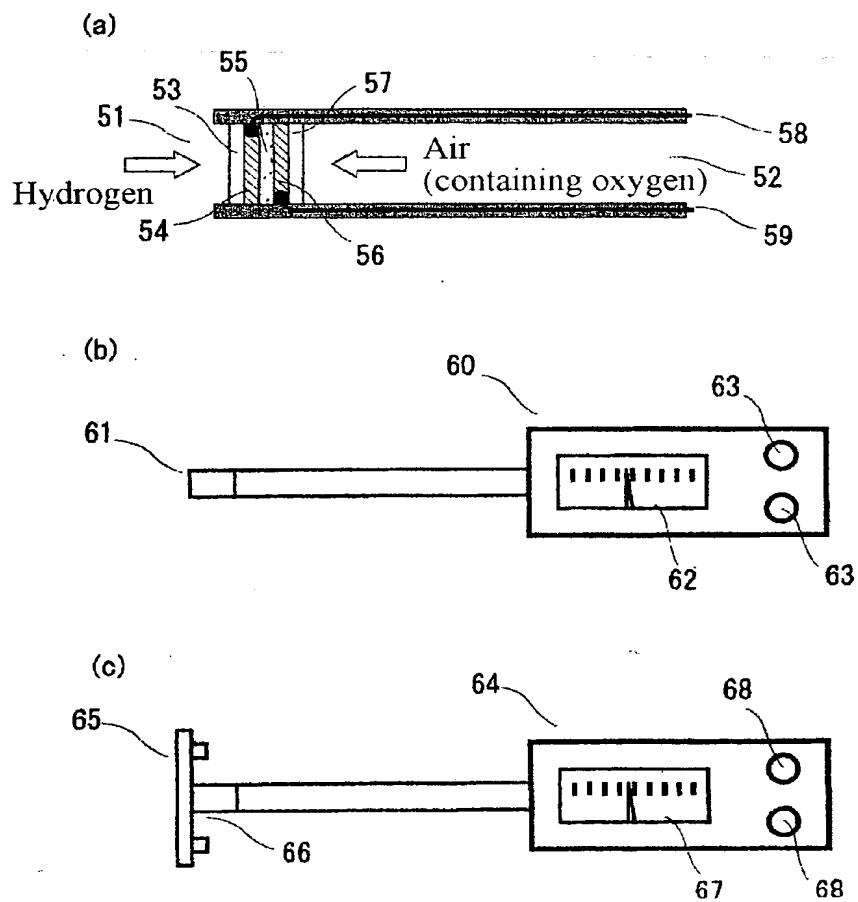


FIG.14

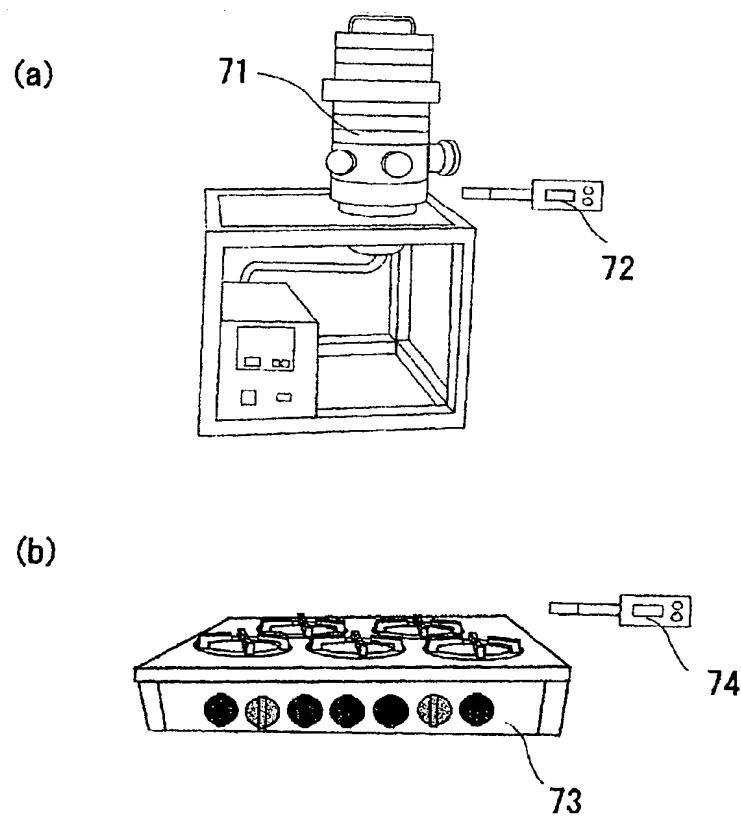


FIG.15

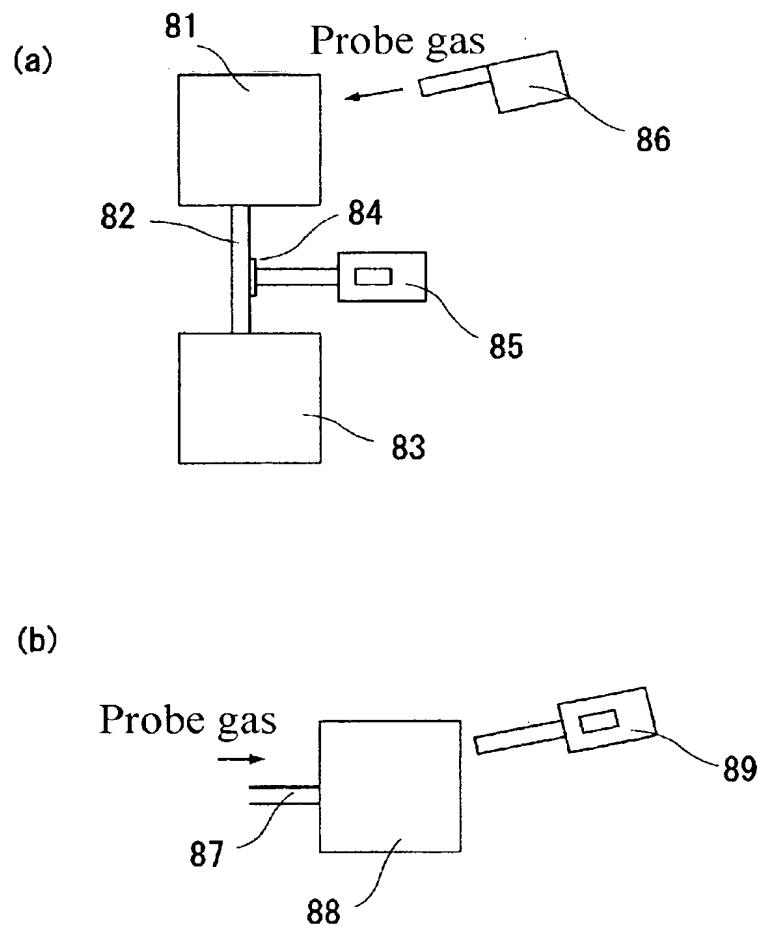


FIG.16

